



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

01/781891

Source:

OIPE

Date Processed by STIC:

11/06/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/781,891

DATE: 11/06/2001

TIME: 14:35:42

Input Set : A:\13381.txt

Output Set: N:\CRF3\11062001\I781891.raw

3 <110> APPLICANT: Delaney, William IV
 4 Locarnini, Stephen Alister
 5 Chen, Robert Yung Ming
 6 Bartholomeusz, Angeline
 7 Isom, Harriet
 9 <120> TITLE OF INVENTION: An assay
 11 <130> FILE REFERENCE: 2378750/EJH
 13 <140> CURRENT APPLICATION NUMBER: 09/781,891
 C--> 14 <141> CURRENT FILING DATE: 2001-10-15
 16 <150> PRIOR APPLICATION NUMBER: 60/179948
 17 <151> PRIOR FILING DATE: 2000-02-03
 19 <160> NUMBER OF SEQ ID NOS: 22
 21 <170> SOFTWARE: PatentIn version 3.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

1464 <210> SEQ ID NO: 22
 1465 <211> LENGTH: 4496
 1466 <212> TYPE: DNA
 1467 <213> ORGANISM: HBV 1.5 genome
 1469 <400> SEQUENCE: 22

1470	gatatcctgc	cttaatgcct	ttgtatgcat	gtatacaagc	taaacaggct	ttcactttct	60
1471	cgccaactta	caaggccttt	ctaagtaaac	agtacatgaa	cctttacccc	gttgctcggc	120
1472	aacggcctgg	tctgtgcaa	gtgtttgctg	acgcaacccc	cactggctgg	ggcttgcca	180
1473	taggccaatca	gcgcattgct	ggaacctttg	tggctcctct	gccgatccat	actgcggaac	240
1474	tcctagccgc	ttgttttgct	cgcagccggt	ctggagcaaa	gctcatcgga	actgacaatt	300
1475	ctgtcgtcct	ctcgcgaaa	tatacatcgt	ttccatggct	gctaggctgt	actgccaaact	360
1476	ggatccttcg	cgggaagtc	tttgtttacg	tcccgctggc	gctgaatccc	gcggagcacc	420
1477	cctcgcgggg	ccgcttgga	ctctctcgtc	cccttctcgc	tctgcgcttc	cagccgacca	480
1478	cggggcgcac	ctctctttac	gcggtctccc	cgtctgtgcc	ttctcatctg	ccggtccgtg	540
1479	tgcacttcgc	ttcaactctg	cacgttgcat	ggagaccacc	gtgaacgccc	atcagatcct	600
1480	gccaagggtc	ttacataaga	ggactcttgg	actcccagca	atgtcaacga	ccgaccttga	660
1481	ggcctacttc	aaagactgtg	tgtttaagga	ctgggaggag	ctgggggagg	agattagggt	720
1482	aaagggtcttt	gtattaggag	gctgtaggca	taaattgggc	tgcgaccag	caccatgcaa	780
1483	ctttttcacc	tctgctaatt	catctcttgt	acatgtccca	ctgttcaagc	ctccaagctg	840
1484	tgccttgggt	ggctttgggg	catggacatt	gacccttata	agaatttgg	agctactgtg	900
1485	gagttactct	cgtttttgcc	ttctgacttc	tttcttccg	tcagagatct	cctagacacc	960
1486	gcctcagctc	tgtatcgaga	agccttagag	tctcctgagc	attgctcacc	tcaccatact	1020
1487	gcactcaggc	aagccattct	ctgctggggg	gaattgatga	ctctagctac	ctgggtgggt	1080
1488	aataatttgg	aagatccagc	atccagggat	ctagtagtca	attatgttaa	tactaacatg	1140
1489	ggttttaaaga	tcaggcaact	attgtggttt	catatatctt	gccttacttt	tggaagagag	1200
1490	actgtacttg	aataatttgg	ctctttcgga	ctgtgggatt	gcactcctcc	agcctataga	1260
1491	ccaccaaagt	cccctatctt	atcaacacct	cgggaaacta	ctgttggttag	acgacgggac	1320
1492	cgaggcagggt	cccctagaag	agaactcccc	tcgcctcgca	gacgcagatc	tcaatcgccg	1380
1493	cgtcgcagaa	gatctcaatc	tcgggaatct	caatgttagt	attccttgga	ctcataaggt	1440
1494	gggaaacttt	acggggcttt	attcctctac	agtacctatc	tttaatcctg	aatggcaaac	1500

1. Invalid 213 response
 see page 4 of 6 A

2. delete EO Sequence
 Non A300 test
 See page 3 of 6

3. See page 4 of 6 B 220
 and Field 225 error

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1495	tccttccttt	cctaagattc	atttacaaga	ggacattatt	aataggtgtc	aacaatttgt	1560
1496	gggccctctc	actgtaaatg	aaaagagaag	attgaaatta	attatgcctg	ctagattcta	1620
1497	tcctaccac	actaaatatt	tgcccttaga	caaaggaatt	aaaccttatt	atccagatca	1680
1498	ggtagttaat	cattacttcc	aaaccagaca	ttattttacat	actctttgga	aggctggtat	1740
1499	tctatataag	agggaaacca	cacgtagcgc	atcattttgc	gggtcaccat	attcttgga	1800
1500	acaagagcta	cagcatggga	ggttggtcat	caaaacctcg	caaaggcatg	gggacgaatc	1860
1501	tttctgttcc	caacctctcg	ggattctttc	cgcgatcatca	gttgaccct	gcattcggag	1920
1502	ccaactcaaa	caatccagat	tgggacttca	accccatcaa	ggaccactgg	ccagcagcca	1980
1503	accaggtagg	agtgggagca	ttcgggccag	ggctcaccac	tccacacggc	ggtattttgg	2040
1504	ggtggagccc	tcaggctcag	ggcatattga	ccacagtgtc	aacaattcct	cctcctgcct	2100
1505	ccaccaatcg	gcagtcagga	aggcagccta	ctcccatctc	tccacctcta	agagacagtc	2160
1506	atcctcaggc	catgcagtgg	aattccactg	ccttccacca	agctctgcag	gatcccagag	2220
1507	tcaggggtct	gtatcttcc	gctggtggct	ccagttcagg	aacagtaaac	cctgctccga	2280
1508	atattgcctc	tcacatctcg	tcaatctccg	cgaggactgg	ggacctgtg	acgaacatgg	2340
1509	agaacatcac	atcaggattc	ctaggacccc	tgctcgtgtt	acaggcgggg	ttttcttgt	2400
1510	tgacaagaat	cctcacaata	ccgcagagtc	tagactcgtg	gtggacttct	ctcaattttc	2460
1511	tagggggatc	tcccgtgtgt	cttggccaaa	attcgcagtc	cccaacctcc	aatcactcac	2520
1512	caacctcctg	tccctcaatt	tgtcctgggt	atcgtcggat	gtgtctgcgg	cgttttatca	2580
1513	tattcctctt	catcctgctg	ctatgcctca	tcttcttatt	ggttcttctg	gattatcaag	2640
1514	gtatgttgcc	cgtttgtcct	ctaattccag	gatcaacaac	aaccagtacg	ggaccatgca	2700
1515	aaacctgcac	gactcctgct	caaggcaact	ctatgtttcc	ctcatgttgc	tgtacaaaac	2760
1516	ctacggatgg	aaattgcacc	tgtattccca	tcccatcgtc	ctgggctttc	gcaaaatacc	2820
1517	tatgggagtg	ggcctcagtc	cgtttctctt	ggctcagttt	actagtgcc	tttgttcagt	2880
1518	ggttcgtagg	gctttccccc	actgtttggc	tttcagctat	atggatgatg	tggatttggg	2940
1519	ggccaagtct	gtacagcatc	gtgagtcctt	ttataccgct	gttaccaatt	ttcttttgc	3000
1520	tctgggtata	catttaaacc	ctaacaaaac	aaaaagatgg	ggttattccc	taaacttcat	3060
1521	gggctacata	attggaagtt	ggggaacttt	gccacaggat	catattgtac	aaaagatcaa	3120
1522	acactgtttt	agaaaacttc	ctgttaacag	gcctattgat	tggaaagtat	gtcaaagaat	3180
1523	tgtgggtctt	ttgggctttg	ctgctccatt	tacacaatgt	ggatatcctg	ccttaatgcc	3240
1524	tttgtatgca	tgtatacaag	ctaaacaggc	tttcaacttt	tcgccaaact	acaaggcctt	3300
1525	tctaagtaaa	cagtacatga	acctttaccc	cgttgctcgg	caacggcctg	gtctgtgcc	3360
1526	agtgtttgct	gacgcaaccc	ccactggctg	gggcttggcc	ataggccatc	agcgcagtcg	3420
1527	tggaaacttt	gtggctcctc	tgcgatccca	tactgcggaa	ctcctagccg	cttgttttgc	3480
1528	tcgcagccgg	tctggagcaa	agctcatcgg	aactgacaat	tctgtcgtcc	tctcgcggaa	3540
1529	atatacatcg	tttccatggc	tgttaggtctg	tactgccaac	tggatccttc	gcgggacgtc	3600
1530	ctttgtttac	gtcccgtcgg	cgtgaatcc	cgcggacgac	ccctcgcggg	gccgcttggg	3660
1531	actctctcgt	ccccctctcc	gtctgcggtt	ccagccgacc	acggggcgca	cctctcttta	3720
1532	cgcggtctcc	cgtctgtgct	cttctcatct	gccggctcgt	gtgcacttcg	cttcacctct	3780
1533	gcacgttgca	tggagaccac	cgtgaaacgc	catcagatcc	tgcccaagg	cttacataag	3840
1534	aggactcttg	gactccagc	aatgtcaacg	accgaccttg	aggcctactt	caaagactgt	3900
1535	gtgttttaagg	actgggagga	gctgggggag	gagattaggt	taaaggctct	tgtattagga	3960
1536	ggctgtaggc	ataaattgg	ctgcgcacca	gcaccatgca	actttttcac	ctctgcctaa	4020
1537	tcactctctg	tacatgtccc	actgttcaag	cctccaagct	gtgccttggg	tggctttggg	4080
1538	gcattggacat	tgaccttat	aaagaatttg	gagctactgt	ggagttactc	tcgtttttgc	4140
1539	cttctgactt	ctttccttcc	gtcagagatc	tcctagacac	cgcctcagct	ctgtatcgag	4200
1540	aagccttaga	gtctcctgag	cattgtctac	ctcaccatac	tgcactcagg	caagccattc	4260
1541	tctgtctggg	ggaattgatg	actctagcta	cctgggtggg	taataatttg	gaagatccag	4320
1542	catccaggga	tctagtagtc	aattatgtta	atactaact	gggttttaag	atcaggcaac	4380
1543	tattgtggtt	tcatatatct	tgccttactt	ttggaagaga	gactgtactt	gaatatttgg	4440

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1544 tctctttcgg agtgtggatt cgcactcctc cagcctatag accaccaaatt gccctt

4496

E--> 1547 1
E--> 1550 38

Delete End of Sequence Nn AGCTT test

09/781 881

<210> 5
<211> 181
<212> PRT
<213> synthetic

Invalid 213 response

<220>
<221> variant
<222> (2)..(2)
<223> X = N or D

Does Not Comply
Corrected Diskette Needed

Sequence ID #5 11/13/01

1. Field 213 response must be "Artificial Sequence", "Unknown" or the name of some species.
2. A 213 response of "Artificial Sequence" requires an explanation of
for example "synthetic" on field 223

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

<210> 1
<211> 23
<212> DNA
<213> artificial sequence

<400> 1
gcctcatttt gtgggtcacc ata

23

Field 223 is mandatory

<210> 2
<211> 20
<212> DNA
<213> artificial sequence

<400> 2
tctctgacat accttccaat

Field 223 is mandatory

A 213 Field response of "artificial sequence" requires an explanation in Field 223.

mm

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/781,891

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TIME: 14:35:43

Input Set : A:\13381.txt

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:28 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:36 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:36 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:1171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

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L:1174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:1199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:1202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:1547 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:4496 SEQ:22

M:254 Repeated in SeqNo=22